

REPORT ON MEETING AT U.S. BUREAU OF STANDARDS

30 January 1959

1430

ATTENDING FROM CIA/PIG:

U. S. BUREAU OF STANDARDS PERSONALITIES: Dr. Harry Keegan
Dr. Charles Saylor

- OBJECT OF MEETING:
1. To discuss techniques of microscopy in connection with the image enhancement research problem.
 2. To discuss any other points which may bear upon the problems of image enhancement.

RESUME: The early part of the afternoon was spent with Dr. Harry Keegan discussing in general terms Spectral Photographic Interpretation. Dr. Keegan was in the process of preparing a diagrammatic layout of the theory and certain results so far obtained in this field of research. This was for exhibition at the Washington Photogrammetry meeting in March 1959.

The latter part of the afternoon was spent with Dr. Charles Saylor discussing the use of microscopy in the image enhancement field. The idea of using microscopy thus was new to Dr. Saylor. Although a very experienced microscopist, he had never been called on to explore this particular field. A general outline of our ideas and problems was presented to Dr. Saylor. Dr. Saylor responded by indicating possible lines in which further research might be profitably conducted. These were chiefly methods of mounting specimens, use of refractive media, and use of light. In the discussion he also described a method of negative reproduction which might be usefully refined. In essence it was a means of density control from original to duplicate material using mercury and a double transmission of light through the negative material. Notes were taken of his idea with a view to further exploitation.

Dr. Saylor indicated that he would like further time to consider the problem of using phase microscopy for image enhancement.

The meeting ended about 1730. It is considered that the discussion was valuable and that contact with Dr. Saylor should not be lost.

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